

Abstract

A magnesium based alloy containing at least 85.4 wt% Mg, 4.7 to 7.3 wt% aluminum, 0.17 to 0.60 wt% manganese, 0.0 to 0.8 wt% zinc, 1.8 to 3.2 wt% calcium, 0.3 to 2.2 wt% tin, and 0.0 to 0.5 wt% strontium. The alloy may comprising up to 0.004 wt% iron, up to 0.001 wt% nickel, up to 0.003 wt% copper, or up to 0.03 wt% silicon. In addition, the alloy may comprise up to 0.001 wt% beryllium.